

# An Open Peer Review Module for Open Access Repositories

**Pandelis Perakakis, Emilio Lorenzo, Isabel Bernal,  
Carles Sierra, Concha Mosquera de Arancibia**

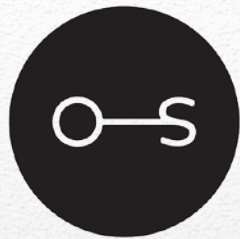
Open Repositories Conference 2016  
13-16 June, Dublin

- I am here for a conference on computational biology, and you?
- Well, I am a neuroscientist, but I am here for a conference on open access repositories.
- Repositories? What is that?
- Oh, well... it's a long story... but you just gave me an idea on how to start my presentation...

# Real dialogue at the lobby of my hotel

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open scholar



**DIGITAL.CSIC**  
OPEN SCIENCE



<http://www.openscholar.org.uk/institutional-repositories-start-to-offer-peer-review-services/>

[http://proyectos.bibliotecas.csic.es/digitalcsic/oprm/index\\_eng.html](http://proyectos.bibliotecas.csic.es/digitalcsic/oprm/index_eng.html)

[http://proyectos.bibliotecas.csic.es/digitalcsic/workshop\\_oa\\_2014/index\\_eng.html](http://proyectos.bibliotecas.csic.es/digitalcsic/workshop_oa_2014/index_eng.html)

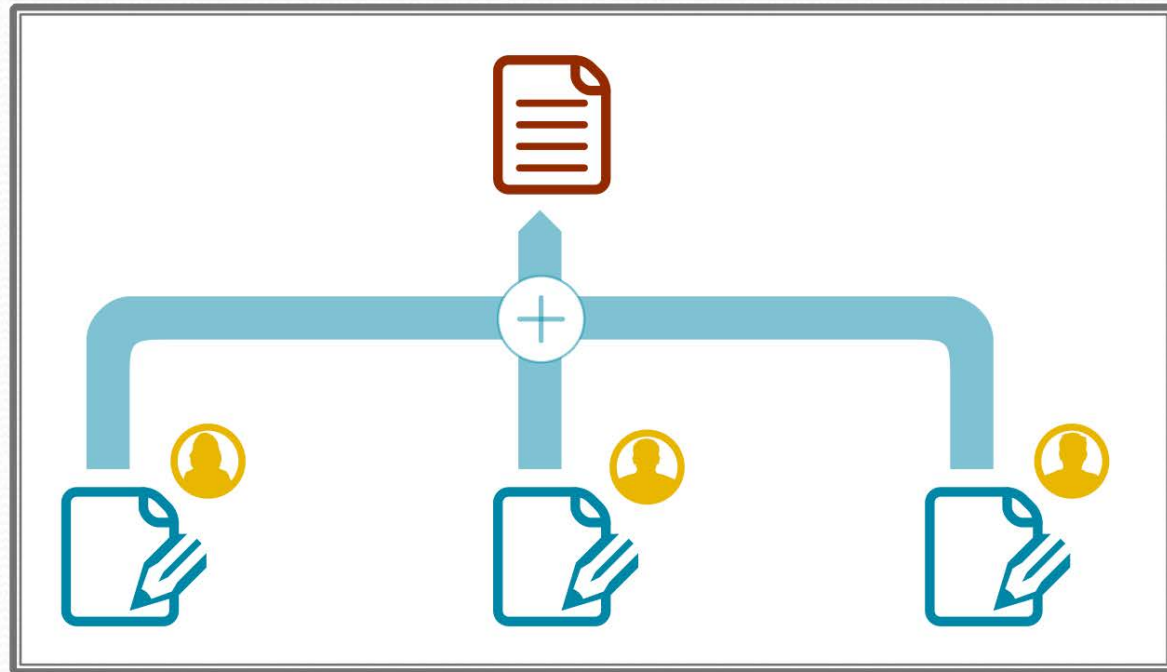
- Open access
- Signed
- Nonselective
- Open in time

# Open Peer Review?

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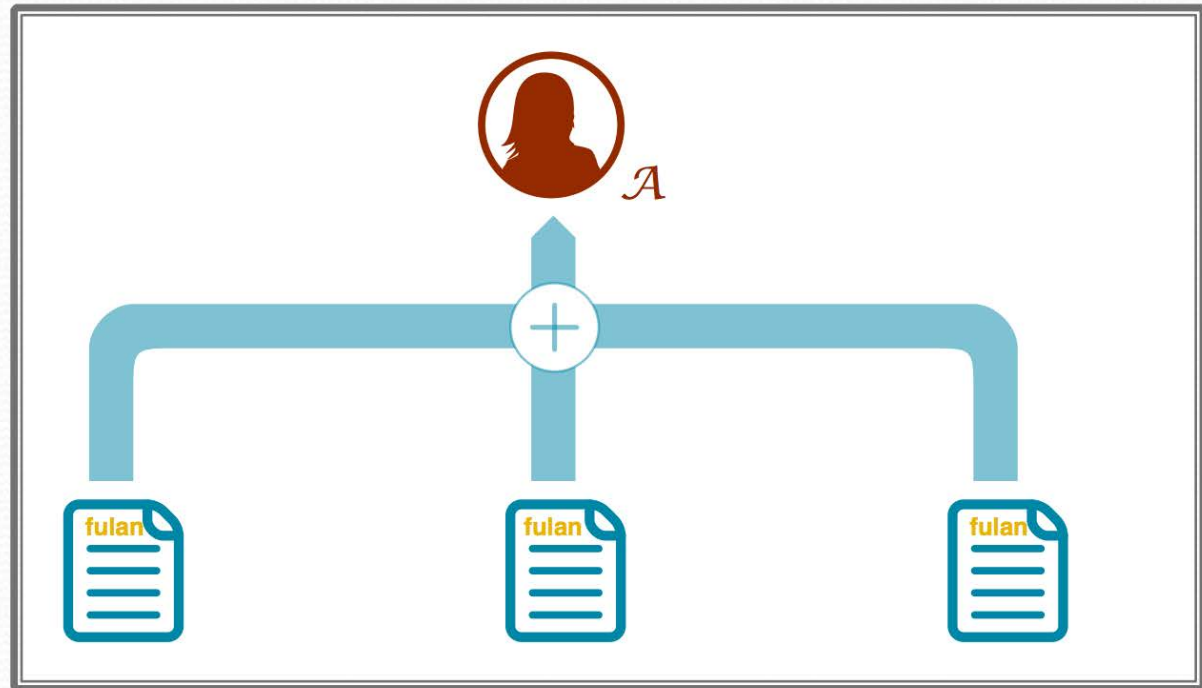


an aggregation of its reviews,  
**weighted** by the reputation of reviewers



Reputation: research object

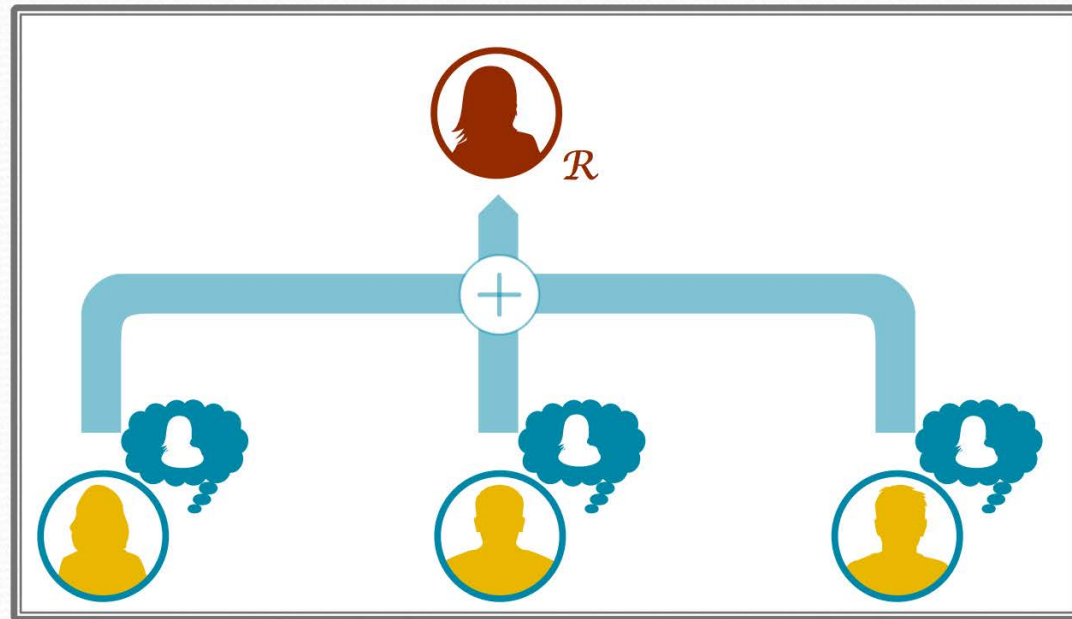
an aggregation of her papers' reputation,  
**weighted** by the number of authors



# Reputation: author



an aggregation of others opinions on our reviewer,  
**weighted** by the reputation of the reviewers



<http://digital.csic.es/handle/10261/130842>

# Reputation: reviewer

- Invitation's module
- Reviews' module
- Compute reputations
- Item's view customization
- Author's view customization

# OPRM functional structure

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- Standard DSpace configurations
  - Defining new collections, workflows,...**
  - Extending the metadata model**
- Apply the code
- Extend the data model (database)
- Views Customization
  - Items, authors, item's relationships, collections...**
- Search system, index and filtering adjustment...
- OAI-PMH filtering

# Installation highlights

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## **Author's model is needed to...**

- disambiguate
- identify
- give credit and recognition, i.e. show author's repu



## Available at:

Code for DSpace v5 XMLUI (e-IEO)

<https://github.com/arvoConsultores/Open-Peer-Review-Module-->

Code for DSpace v4 JSPUI (digital.CSIC)

[https://github.com/arvoConsultores/dspace\\_cris--](https://github.com/arvoConsultores/dspace_cris--)

Wiki

<https://github.com/arvoConsultores/Open-Peer-Review-Module/wiki>

DSpace v. 5.2, XMLUI

<http://www.repositorio.ieo.es/e-ieo/>

DSpace-CRIS, v.4.3, JSPUI

<http://digital.csic.es>

The screenshot shows the e-IEO homepage. At the top, there are logos for e-IEO, the Spanish flag, and the Spanish National Research Council (CSIC). Below the logos, there is a search bar and a navigation menu. The main content area features a welcome message and several featured sections: 'Apoyo a la Investigación', 'Área de Acuicultura', 'Área de Medio Marino y Protección Ambiental', 'Área de Pesquerías', and 'Cabinete de Prensa'. A sidebar on the left contains links to 'Browse' (Authors, Titles, Subjects, Types of Contents, Oceanographic Centers, Author profiles) and 'My Account' (Login, Register).

The screenshot shows the DIGITAL.CSIC homepage. At the top, there is a navigation bar with links to 'CSIC Research', 'Pasarela', 'Statistics', and 'Contact'. Below the navigation bar, there is a search bar and a 'Sign on to:' button. The main content area features a welcome message and several featured sections: 'Send us your works', 'Highlights' (Special issue on Community of Madrid open access mandate, CSIC Abierto 13, DOIs assignment to datasets in DIGITAL.CSIC, Slides of Open Peer Review Module for Repositories Out), 'Media Gallery', 'Your research in images', 'GOOD PRACTICES, RESOURCES AND SUPPORT', 'OPEN ACCESS MANDATES', 'OA INTERVIEWS AND TESTIMONIALS', and 'DIGITAL.CSIC in figures' (126.430 records available, 61.94 % open access, 150 Institutes and 1.242 Collections, Lineal growth | Monthly evolution).

Pilot implementation in 2 institutional repositories



# Open peer reviews and comments have their own collections

## OPRM: Open Peer Reviews : [5]



With the support of OpenAIRE, the researcher organization Open Scholar has coordinated a consortium of 5 partners to develop the first Open Peer Review Module (OPRM) for open access repositories. DIGITAL.CSIC participates as one of the 2 repositories to test the pilot module. The OPRM envisions the gradual conversion of existing repositories into fully-functional evaluation platforms. It allows an unlimited number of reviewers to evaluate any research work available in DIGITAL.CSIC (preprints, published articles, presentations, conference outputs, datasets, book chapters and books, working papers...). In its current version, reviewers will be invited through the system (i.e. following an author's request) and at a later stage it is foreseen that any researcher, CSIC-affiliated or from other institution, may volunteer to review any object of the repository. In both cases, reviewers will receive the request by email and will be asked to complete their review on the repository platform. The review generates a new item on the repository, which is under a Creative Commons CC-BY license, linked to the original research work and openly accessible and citable. The OPRM also includes an annotation subsystem which adds an inter-reviewer-level by allowing reviewers to comment other reviews on the same research object. Only constructive comments will be accepted and the system will not allow for the publication of offensive or non-scientific contributions. The OPRM module displays the name and affiliation of the reviewer and in addition to reviewing research works, the reviewer will be able to evaluate other reviews of the same work.

The module has been built by DSpace provider ARVO and developed as an extension of DSpace workflow and submission capabilities. The reputation algorithms were developed as separate plugins, allowing their easy adaptation to other reputation models. The reputation assessment model by the CSIC Artificial Intelligence Research Institute (IIIA) is based on peers evaluating not only each other's research works but also each other's reviews. A full explanation about the reputation algorithms is available at the paper Reputation at the Academic World. (<http://digital.csic.es/handle/10261/130842>)

Browse

Issue Date Author Title Keywords Funder

### Further information:

Open access repositories start to offer overlay peer review services

First OPR-Module for repositories

Developing the first Open Peer Review Module for Institutional Repositories

Public launch of the OPRM Project

OPRM Code

## OPRM: Open Comments : [2]



With the support of OpenAIRE, the researcher organization Open Scholar has coordinated a consortium of 5 partners to develop the first Open Peer Review Module (OPRM) for open access repositories. DIGITAL.CSIC participates as one of the 2 repositories to test the pilot module. The OPRM envisions the gradual conversion of existing repositories into fully-functional evaluation platforms. It allows an unlimited number of reviewers to evaluate any research work available in DIGITAL.CSIC (preprints, published articles, presentations, conference outputs, datasets, book chapters and books, working papers...). In its current version, reviewers will be invited through the system (i.e. following an author's request) and at a later stage it is foreseen that any researcher, CSIC-affiliated or from other institution, may volunteer to review any object of the repository. In both cases, reviewers will receive the request by email and will be asked to complete their review on the repository platform. The review generates a new item on the repository, which is under a Creative Commons CC-BY license, linked to the original research work and openly accessible and citable. The OPRM also includes an annotation subsystem which adds an inter-reviewer-level by allowing reviewers to comment other reviews on the same research object. Only constructive comments will be accepted and the system will not allow for the publication of offensive or non-scientific contributions. The OPRM module displays the name and affiliation of the reviewer and in addition to reviewing research works, the reviewer will be able to evaluate other reviews of the same work. Similar to the reputation of authors functionality, the OPRM reputation assessment model considers that if a reviewer produces 'good' reviews, then the reviewer is considered to be a 'reputed' reviewer.

The module has been built by DSpace provider ARVO and developed as an extension of DSpace workflow and submission capabilities. The reputation algorithms were developed as separate plugins, allowing their easy adaptation to other reputation models. The reputation assessment model by the CSIC Artificial Intelligence Research Institute (IIIA) is based on peers evaluating not only each other's research works but also each other's reviews. A full explanation about the reputation algorithms is available at the paper Reputation at the Academic World. (<http://digital.csic.es/handle/10261/130842>)

Browse

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Public launch of the OPRM Project


OPRM Code

<https://digital.csic.es/handle/10261/131210>

<https://digital.csic.es/handle/10261/131213>

# Waiting for open discussion...

EndNote
BASE
f
in
t
w
p
o
d
a
i


Statistics
See citations in Google Scholar
See citations in Microsoft Academic Search

**Title:** Bibliometrics: The Leiden Manifesto for research metrics

**Authors:** Hicks, Diana; Wouters, Paul; Waltman, Ludo; Rijcke, Sarah de; Rafols, Ismael

**Issue Date:** 2015

**Publisher:** Nature Publishing Group

**Citation:** Nature 520(7548): 429-431 (2015)

**Abstract:** Use these ten principles to guide research evaluation, urge Diana Hicks, Paul Wouters and colleagues.

**Description:** Comment.

**Publisher version (URL):** <http://dx.doi.org/10.1038/520429a>

**URI:** <http://hdl.handle.net/10261/132304>

**ISSN:** 0028-0836

**DOI:** 10.1038/520429a

**E-ISSN:** 1476-4687

**Appears in Collections:** (INGENIO) Artículos

Files in This Item:

File	Description	Size	Format	
Leidenmanifesto.pdf		384,04 kB	Adobe PDF	<a href="#">View/Open</a>

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<https://digital.csic.es/handle/10261/132304>



Enter your name.

**Author \***

Last name, e.g. Smith

First name(s) + "Jr", e.g. Donald Jr

Enter your affiliation.

**Affiliation \***

The reviewer must indicate her affiliation

Select the language of your review.

**Language \***

No aplicable

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<http://creativecommons.org/licenses/by/4.0/>

By default, all reviews and comments have a CC-BY license

Resource type

**Type \***

Revisión

New resource types

Choose option 1 if you consider that the work is scientifically acceptable. Choose option 0 if you consider that the authors should revise the work taking into account your evaluation. The scientific standard refers to various relevant parameters such as methodology, clarity of presentation, use of language, inclusion of key references, sound etc. Choose "No Aplicable" if you do not wish to score these criteria or they are not applicable to the work under review

**Scientific standards \***

1

Qualitative and quantitative peer review

Rate in a scale from 0-100 the importance of this work for its academic field. [0-100]

**Importance of this work for its academic field \***

No aplicable

Rate in a scale from 0-100 how interesting this work is for other academic fields. [0-100]

**General interest \***

No aplicable

Rate in a scale from 0-100 the importance of this work for society in general (social value: how relevant this work is for the problems society is currently facing). [0-100]


**Social value \***


No aplicable

Please provide below your detailed review about the work, including all necessary information to help its authors improve their contribution. Try to be constructive in your comments. You need to submit formatted text with figure, equations, etc., you will later have the opportunity to attach one or more additional files.

**Review text \***

# Open reviews and comments generate new items in the repositories


**Title:**  Towards a unified paradigm for sequence-based identification of fungi [Review]

**Authors:** Spouge, John L. 


**Issue Date:** 27-Apr-2016

**URI:** <http://hdl.handle.net/10261/131502>


**Affiliation:** National Center for Biotechnology Information, National Institutes of Health

**Review reputation:**  50 [How scores are calculated?](#)

**Review:** The nuclear ribosomal internal transcribed spacer (ITS) is the official fungal barcode. Collections of ITS sequences do not usually provide either a public reference dataset or a stable, standardized taxonomic nomenclature for all fungal species. Here, contributing mycologists have developed software to gather ITS sequences from various sources and to provide them with a standardized taxonomic annotation. The resulting database and its software provide a truly public and open resource to further fungal research, both by mycologists and by other scientists. In particular, the article introduces the term "species hypothesis" to permit the discovery of new taxa by sequence clustering. The software provides systematic unique identifiers for the corresponding species hypothesis and automatically designates as its representative a sequence closest to the consensus sequence of the cluster. The software also cleans data (e.g., identifying chimeric sequences) and permits experts to add metadata in the form of annotations. With its standardization, the article provides a potential foundation for computerized taxonomic progress in mycology. My rating of 50 in "General interest" and "Social value" reflects my uncertainty about whether other taxonomic areas adopt the model for standardization presented in the article and whether the standardization is actually adopted by the general mycological community. The authors have, however, given their standard the potential to scale to a larger database.

**Quality rating:**  100

**Appears in Collections:** OPRM: Open Peer Reviews

**Related works:**  90 <http://hdl.handle.net/10261/130958>

**Related comments:** [View annotation by Martín, María P.](#)

**Files in This Item:**

File	Description	Size	Format	
<a href="#">paradigm_sequence-based_identification_fungi_Koljalg.pdf</a>	Main article	307,08 kB	Adobe PDF	<a href="#">View/Open</a>
<a href="#">Fig_S1_Generation_global_key_technical_description.pdf</a>		103,77 kB	Adobe PDF	<a href="#">View/Open</a>

Open reviews records contain:

- Name of the reviewer and affiliation
- Links to the reviewed work
- Links to items with related open comments
- Individual quality rating of the reviewed work
- Weighed review reputation metrics



## Review sheet (clipping)

na Thunnus thynnus eggs obtained from captive  
[Review]

### Authors

Jerez, S. (Salvador) 

Instituto Español de Ocenografía


### Date

2016-04-06


### Type

review


### Overall quality

 Quality rating



### Review reputation

 Reputation value

### Related works

 <http://hdl.handle.net/10508/2494>  
Reputation value

### Related comments

 View comment by Rodrigues-dos-Santos-Domingues, P.M. (P)  
 View comment by de-la-Gándara, F. (Fernando)  
Quality ratings

## Comment sheet (clipping)

emblages on the soft bottoms off the Catalan-Levante  
[Comment]

### Authors

García-Rodríguez, M. (Mariano) 

Subdirección General de Investigación


### Date

2016-04-19


### Type

comment

### Overall quality

 Quality rating

### Related reviews

 View review by Sampedro-Pastor, P. (Paz)  
Reputation value

### Abstract

Answer to the referee report of Paz Sampedro Dem...  
time and sampling season has little or no effect in the...  
only in spring so, rigorously, only this season is menti...  
objection argued to the differentiation of the two group...  
Firstly, groups were established based on the results o...  
being subsequently grouped by a cluster. The MDS...  
depth, performing one ANOSIM, with the sub-routine o...  
Thus five groups were identified, clearly separated b...

Records of the reviewed works link to their open reviews, individual quality ratings and overall reputation metrics

## Cold-water corals in the Cap de Creus canyon, northwestern Mediterranean: spatial distribution, density and anthropogenic impact

### View/Open

 [m397p037.pdf \(861.8Kb\)](#)

### Identifiers

URI: <http://hdl.handle.net/10508/7818>

DOI: [10.3354/meps08314](https://doi.org/10.3354/meps08314)

### Export

RIS

### Share



### Statistics



Cited 73 times in **Scopus**

[View Usage Statistics](#)

### Metadata

[Show full item record](#)

### Authors

Orejas, C. (Covadonga) [IEO](#); Gori, A. (Andrea); Lo-Iacono, C. (Claudio); Puig, P. (Pere); Gili, J.M. (Josep Maria); Dale, M.R.T. (Mark R.T.)

### Editor's version

<http://www.int-res.com/abstracts/meps/v397/p37-51/>

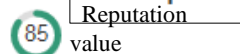
### Date

2009

### Type


article

### Publication reputation



### Related reviews

 [View review by Cristobo, J. \(Javier\)](#)


 [View review by Serrano, A. \(Alberto\)](#)

### Keywords

Cold water corals  
Submarine canyons



# Author/reviewer reputation metrics show in their personal page (1/2)


[Producción CSIC](#)
[Pasarela](#)
[Estadísticas](#)
[Contacto](#)

[Servicios](#)

DIGITAL.CSIC


## Martínez-graullera, Oscar

[Colaboraciones](#)
[Ver estadísticas de uso](#)
[Alertas por Email](#)
[RSS](#)

Reputación como autor: 50

Perfil

Foto:



Firma en Digital.CSIC (\*): Martínez-graullera, Oscar

Otras firmas: Oscar Martínez  
Oscar Graullera

Centro o Instituto: Instituto de Tecnologías Físicas y de la Información

Departamento: Acústica y Evaluación No Destructiva

Categoría Profesional: Científico Titular

Especialización: Imagen ultrasónica


ORCID: <http://orcid.org/0000-0002-4793-1342>

Perfil en Google Scholar: <https://scholar.google.es/citations?user=b0bx8KMAAAAJ&hl=es>

Otros identificadores (con url): RESEARCHERID

Email: oscar.martinez@csic.es

<http://digital.csic.es/cris/rp/rp01941>


Producción científica

## Continued..(2/2)

### Orejas, C. (Covadonga)



#### Biography

Covadonga Orejas is graduate in in Natural Sciences from the Univ staff of the IEO (currently at COB) and other benthic organisms since sustainable management of the C projects conducted in 12 different (44 SCI), and 7 book chapters. She scientific journals, and several fur

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#### Contact Information



#### Fields of Specialization

Biology and ecology of cold-water corals (CWC) and other benthic org

#### Degrees

Graduate in Biology from the Universidad Complutense de Madrid (Sp (Germany)

#### Departments

C.O. BALEARES

Last updated marzo 15, 2016

#### Author's reputation



### Jerez, S. (Salvador)



#### Biography

Salvador Jerez, born in La Gomera (Spain) of La Laguna (Spain). Researcher at the IEO Island Oceanographic Centre since 1989. E with 20 years participating in 19 Spanish an included in JCR/SC, and 40 National and In greater amberjack in the European Project I

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#### Fields of Specialization

Expert on Greater amberjack (*Seriola dumerili*) aquaculture specializing in repro

#### Degrees

Graduate and PhD in Biology from the University of La Laguna (Spain)

#### Departments

C.O. CANARIAS

Last updated marzo 15, 2016

#### Reputation as a reviewer





# Feedback from CSIC researchers and external reviewers invited to the OPRM pilot phase

- A long awaited service in the repository.
  - It is a great idea that merits success as currently peer review is not credited in researchers CVs at all due to its anonymity. But researchers will not have time to review and comment on other peers works as long as this activity remains outside of CVs recognition and lacks strong support from the research institutions.
  - The functionality may be also used to evaluate, accept and comment contributions before the conference?
  - I have contacted 3 reviewers: one has no time available, another is against any type of peer review as reviewing is a subjective activity in such a reduced scholarly discipline and the third one has accepted to do it.
  - The service should promote spontaneous discussion by anybody willing to send comments.
  - Inviting peers to an open evaluation may place people in an uncomfortable situation, the module should work 100% open.
  - The service is great for preprints and other unpublished works but has limited applicability for works that have been already evaluated and published.
  - How does open peer review operate in relation to “finished” pieces of work (i.e, a book)?
  - How will the service compete with Academia.edu open review/comments?
  - May I use the review functionality to invite peers to review my paper on SSRN?
  - On one side, I like the initiative by the CSIC, because it may foster debates among scholars on hot topics. On the other side, it requires time and effort from open reviewers, which they are probably willing to devote only if highly motivated. It must be hard for most scholars to be able to allocate their very scarce time to comment on published articles, unless they really want to say something about them.
  - Why do I need to upload my review as an attachment? It is an extra work load
-



# Feedback from e-IEO researchers and reviewers invited to the OPRM pilot phase

- Leads to open collaboration
  - Ensures expert reviews
  - Avoids subjectivity
  - Full support would soon lead to full open science
  - Implementation requires time
  - Negative review... awkward situation among colleagues?
-



# Prospects for the future

Talking about functionality..

what to evolve in the short-term?

- Reviewers identification/authentication
- Visual approach to object's relationships, reputations, timeline....

**And some “blue-sky” ideas**

standardize reputations concepts, profiles? Algorithms?...

federation of repositories interchanging reputations...



# Prospects for the future

- Institutional awareness raising campaigns
  - It remains a challenge to enthuse authors to use the module for their preprints as fears of journal rejection later on still prevail.
  - More work needed against the following barriers: reticence to participate as to lack of linkage with institutional assessment exercises and rewards system, limitations associated with an invitation-based module and misunderstandings about the OPRM reputation metrics>>>> FAQs coming soon!
  - A cross-platform evaluation system is pending. Widely disseminated and comparable platform-independent metrics
-



# Next Generation Repositories



<https://www.coar-repositories.org/activities/advocacy-leadership/workshop>



## **Panel 6: Repositories of the Future**

*Time: Thursday, 16/Jun/2016: 11:00am - 12:30pm*

*Session Chair: Richard Rodgers*

*Location: Joly Theatre  
Hamilton Building*

# Contact

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**Emilio Lorenzo:** [elorenzo@arvo.es](mailto:elorenzo@arvo.es)

**Isabel Bernal:** [isabel.bernal@bib.csic.es](mailto:isabel.bernal@bib.csic.es)

Thank you for your  
Attention!